

US EPA ARCHIVE DOCUMENT

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## Clean Air Act

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Alabama's Air Pollution Control Program

**Christy Monk**

Chief, Natural Resources Section

Air Division

Department of Environmental Management



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# Objectives

- Provide overview of Alabama's Air Pollution Control Program
- Raise awareness of equipment and activities at DOC facilities that may be subject to regulation and/or permitting by ADEM's Air Division



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# Overview of Air Pollution Control Program

- State Law
  - Alabama Environmental Management Act, Ala. Code §§22-22A-1 to 22-22A-16
  - Alabama Air Pollution Control Act, Ala. Code §§22-28-1 to 22-28-23
- Federal Law
  - Clean Air Act, as amended Nov. 15, 1990, Title 42, Chapter 85 of the United States Code



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# Overview of Air Pollution Control Program

- Jurisdiction

- ADEM's Air Division has primary jurisdiction for the Alabama's Air Pollution Control Program across entire state except:

- Jefferson County

- Jefferson County Department of Health ([www.jcdh.org](http://www.jcdh.org))

- City of Huntsville

- City of Huntsville Department of Natural Resources ([www.hsvcity.com/NatRes/](http://www.hsvcity.com/NatRes/))



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# Overview of Air Pollution Control Program

- Rules and Regulations
  - ADEM Administrative Code, Division 3
    - [www.adem.state.al.us/Regulations/regulations.htm](http://www.adem.state.al.us/Regulations/regulations.htm)
  - Code of Federal Regulations, Title 40, Chapter I, Subchapter C (Air Programs), Parts 50-96
    - [ecfr.gpoaccess.gov](http://ecfr.gpoaccess.gov)



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# Overview of Air Pollution Control Program

- Clean Air Act

- Comprehensive federal law that regulates air emissions from stationary and mobile sources
- EPA sets limits on the quantity of air pollutants in ambient air
- EPA sets limits on emissions of air pollutants coming from specific industry sectors, processes, or equipment
- EPA has begun publishing regulations for smaller sources



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# Overview of Air Pollution Control Program

- EPA delegates some authorities to State and local air pollution agencies
  - Monitor air quality
  - Inspect and permit facilities
  - Enforce federal regulations
- States develop State Implementation Plans (SIP)
  - Outline how each state will control air pollution
  - EPA must approve SIP





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# Overview of Air Pollution Control Program

- Permitting
  - Obligation to apply for a permit under Division 3 regulations extends to any owner/operator of an air emission source
  - Permitting determinations done on case-by-case basis
    - Some federal regulations require sources to obtain permits when their potential to emit is greater than a certain threshold
    - No minimum emission thresholds or source sector lists have been established exempting sources from obtaining a permit
  - Source should contact the Air Division for guidance on permitting prior to adding, replacing, or modifying any air emission source



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# Overview of Air Pollution Control Program

- Inspections
  - Frequency varies with type of source
  - Elements
    - Evaluate equipment and control devices while in operation to detect emission problems
    - Identify unauthorized equipment additions, modifications, or replacements
    - Collect operating parameters
    - Review records of monitoring, fuel usage, and production, where applicable
    - Provide compliance assistance



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# Equipment/Activities Subject to Regulation

- Fuel combustion sources
  - Types
    - Boilers/Water heaters
    - Generators (stationary internal combustion engines)
    - Does not include mobile sources (on-road or off-road engines)
  - Primary air pollutants
    - Particulate matter (PM)
    - Carbon Monoxide (CO)
    - Nitrogen Oxides (NO<sub>x</sub>)
    - Volatile Organic Compounds (VOC)
    - Sulfur Dioxide (SO<sub>2</sub>)
    - Hazardous Air Pollutants (HAP)



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# Equipment/Activities Subject to Regulation

- Fuel combustion sources (continued)
  - Types of Standards
    - Federal New Source Performance Standards (NSPS)
    - Federal National Emission Standards for Hazardous Air Pollutants (NESHAP)
    - State particulate, opacity, and SO<sub>2</sub> emission standards (boilers/water heaters only)
  - Emissions standards based upon manufacture dates, size, fuel, and in some cases, facility-wide emissions
  - Control devices typically only needed for larger sources



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# Equipment/Activities Subject to Regulation

- Activities

- Types

- Wood furniture manufacturing (Glues/Resin and Solvents)
    - Miscellaneous Surface Coating/Painting
    - Metal fabrication
    - Painting/coating motor vehicles and mobile equipment
    - Paint stripping (with Methylene Chloride)
    - Plating and Polishing (w/ materials containing Cd, Cr, Pb, Mn, or Ni)
    - Degreasing (methylene chloride, perchloroethylene, trichloroethylene, 1,1,1,-trichloroethane, carbon tetrachloride, and chloroform)
    - Gasoline dispensing into motor vehicles



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# Equipment/Activities Subject to Regulation

- Primary air pollutants
  - Volatile Organic Compounds
  - Hazardous Air Pollutants (both organics and metals)
- Federal National Emission Standards for Hazardous Air Pollutants (NESHAP)
  - Major Source (>10/25 TPY)
  - Area Source (<10/25 TPY)
- Regulations may require controls, work practice standards, use of alternative solvents, paints, or glues



# In Closing...

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If a regulatory/permitting determination has not been made for your equipment or activity, contact the Air Division:

- Thomas Brown (334) 271-7901
  - Boilers
- Brandon Cranford (334) 271-7893
  - Generators (IC Engines)
- Chris Osborne (334) 271-7890
  - Degreasing
  - Metal Fabrication, Plating, or Polishing Operations
- Don Barron (334) 271-7884
  - Painting/coating motor vehicles and mobile equipment
- Kevin Fulmer (334) 270-5652
  - Wood Furniture Manufacturing
  - Surface Coating Operations (other than motor vehicles/mobile equipment)

**Christy Monk**  
**ADEM-Air Division**  
**(334) 271-7873**

**[cvm@adem.state.al.us](mailto:cvm@adem.state.al.us)**